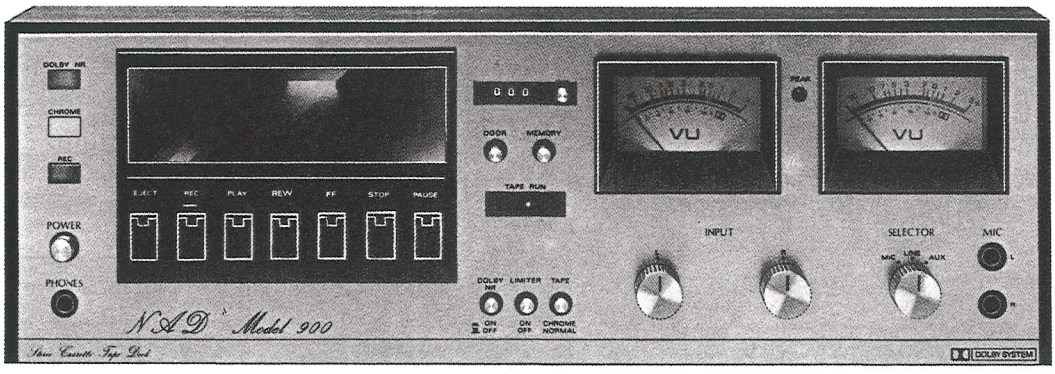
SERVICE MANUAL

NAD Model 900

STEREO CASSETTE TAPE DECK



NAD900 SERVICE MANUAL

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A. ADJUSTMENT STEPS

1. HEAD AZIMUTH ADJUSTMENT

Play the azimuth test section of a test tape PHILIPS TC-A10 or TEAC MTT-114, and adjust Head mounting screw for Line Output maximum. (Fig 1)

2, PLAY-BACK SENSITIVITY

Play TEAC MTT150, and adjust AVR 101 (L Ch.) and AVR102 (R Ch.) for Dolby Check Point (Fig. 2) output level 580 mV.

3. LEVEL METER ADJUSTMENT

Set to REC mode and give Signal -23dB. Then adjust REC Volume for Dolby Check Point (Fig. 2) 650 mV. Simultaneously adjust AVR 804 (L Ch.) and AVR803 (R.Ch.) for Level Meter pointing + 2 VU.

4. PEEK LEVEL INDICATION ADJUSTMENT

Set to REC mode, and giving Signal - 22dB to Line Input, adjust REC Volume for Dolby Check Point (Fig 2) 650 mV. Simultaneously adjust AVR806 (L Ch.) and AVR805 (R Ch.) so that Peek Level Indicator starts illumination. Note that no sygnal should be given to R Ch., when adjusting L Ch., and vice-versa.

5. HEAD-PHONE OUTPUT ADJUSTMENT

Play TEAC MTT 150, and adjust Playback Sensitivity for Dolby Check Point (Fig. 2) Output Level 580 mV. Then load Head-phone Output with an 8-ohm Resistance, and adjust AVR 401 (L Ch.) and AVR402 (R Ch.) to obtain accross voltage 60 mV.

6. 19 KHz TRAP ADJUSTMENT

Set to REC mode, and giving Signal 19 KHz ± 2 Hz to Line Input, adjust L101 (L Ch.) and L201 (R Ch.) for Dolby Check Point (Fig. 2) output minimum. Input Level .... approx. - 20 dBV

7. BIAS FREQUENCY ADJUSTMENT

Se to REC mode, and adjust OSC Coil to obtain Frequency accross Erase Head 85 KHz.

8. BIAS CURRENT ADJUSTMENT

8-1 Provisional Adjustment

Set to REC mode, connecting a 10-Chm resistance to Head grounding side in series, and adjust AVR501 (L Ch.) and AVR502 (R Ch.) to obtain accross voltage 3 mV.

8-2 Final Adjustment

Note that, before final adjustment, REC Current adjustment per Item 9 should be done after provisional adjustment. Give Signal - 26 dB Reference Level to AUX Input, and adjust AVR501 (L Ch.) and AVR502 (R Ch.) to have Frequency Hesponse - 4.5 dB at 333 Hz and 14 KHz. (Remark : Reference Level represents Input Level to give + 2 VU on Level Meter)

9. REC. CURRENT ADJUSTMENT

After Bias Current provisional adjustment per Item 8-1, halt oscillation and adjust AVR103 (L Ch.) and AVR203 (R Ch.) to obtain Recording Current 80μA. Once again start Bias oscillation, and read output when recorded and played back, to confirm Dolby Check Point output 580 mV. When Recording Output 580 mV cannot be obtained, vary Recording Current 80μA to have a proper value.

10. LIMITER ADJUSTMENT

Give Signal - 65 dBV to Mic Jack, and adjust Recording Volume to obtain Dolby Check Point 580 mV.

Under above conditions and with Limiter Switch position 'ON', adjust AVR102 (L Ch.) and AVR103 (R Ch.) to obtain Dolby Check Point Output Level 490 mV - 580 mV. In addition, giving Input Signal - 55 dB, re-adjust to obtain Dolby Check Point within 580 mV - 490 mV.

11. TAPE SPEED ADJUSTMENT

Play TEAC MTT 111 3 KHz, and adjust AVR902 to have Play-back Frequency 3 KHz.

ADJUSTMENT POINTS AFTER COMPONENT REPLACEMENT

* *

Description	Code Nr.	Adjustment Item										
		1	2	3	4	5	6	7	8	9	10	11
Level Meter	6795 0141			X								
Mecha. Unit M138	7295 0711	X	X					X	X	X		X
Main PWB Assembly	8748 8101		X				X			X	X	
Mains PWB "	8748 8201											X
Headphone PWB "	8748 8301					X						
OSC PWB "	8748 8401							X	X			
Meter PWB "	8748 8501			X	X							
Power Transformer	4501 9055											X
Transistor 2SC-458 LG	3594 0503		X									
" 2SK-30D											X	
IC NE545B	3790 1004		X							X		
" CA741CE	3790 1006									X	X	
Filter Coil 23MH	4691 1009							X	X			
Transistor 2SD-261	3506 2518							X	X			
(501/502/403/404)	"					X						
OSC Coil	6190 4202							X	X			
Luminous Diode LED	3680 1007				X							
R/P Head	7975 1047	X	X					X	X	X		
Erase Head	7975 1048							X	X			
Motor 13V-DC	7975 2019											X
Diode 1S-953 D105	3600 1522										X	
" D205	"										X	
Capacitor C133	4297 0043						X					
" C233	"						X					
" C502	4297 0135							X	X			
" C501	"							X	X			
" C505	4275 4508							X	X			
" C501	4297 0020							X	X			

Description	Code Nr.	Adjustment Item										
		1	2	3	4	5	6	7	8	9	10	11
AVR 101	4195 0023		X									
" 201	"		X									
" 103	"									X		
" 203	"									X		
" 102	4195 0056										X	
" 202	"										X	
" 401	"					X						
" 402	"					X						
" 501	4195 0024								X			
" 502	"								X			
" 801	4195 0023				X							
" 802	"				X							
" 803	"			X								
" 804	"			X								

Remark : Only critical components are listed above. In case other circuit coponents are replaced, check and measure the relevant circuit, and make re-adjustment when abnormal result was obtained.

NAD900

SWITCH POSITION AND INPUT LEVEL AT ADJUSTMENT

* * * * * * * * * * * * * * * * * * *

ADJUSTMENT ITEMS / CONDITIONS	A 1	A 2	A 3	A 4	A 5	A 6	A 7	A 8	A 9	A 10	A 11
	Head Azimuth	Playback Sensitivity	Level Meter	Peek Level Indicator	Headphone Output	19 KHz Trap	Bias Freq.	Bias Current	Rec. Signal Current	Limiter	Tape Speed
Playback Standard Tape	TEAC MTT114	" MTT150			" MTT150						"MTT111
Recording Standard Tape								BASF C401R	" C401R		
Measureing Frequency	10KHz	400Hz	333Hz	333Hz	400Hz	19KHz	85KHz	333Hz/ 14KHz	333Hz	333Hz	3KHz
Power Supply Voltage	220V	220V	220V	220V	220V	220V	220V	220V	220V	220V	220V
Circuit tc measure	Fig 1	Fig 2	Fig 3	Fig 3	Fig 4	Fig 2	Fig 5	Fig 5	Fig 5	Fig 2	Fig 6
Input Level			- 23dB	- 22dB		- 20dB			- 23dB	- 23dB	
Output Level		580mV	580mV	580mV	60mV	min.		≅ 300μA	≅ 80μA	580mV	
Input Jack			Line	Line	Line	Line			Line	Mic.	
Output Jack	Line	D.C.P	D.C.P	D.C.P	D.C.P H/P	D.C.P	EH	R/P Head	R/P Head	D.C.P	Line
Load					8Ω						
Adjustment Point L Ch.	Head Screw	AVR101	AVR804	AVR806	AVR401	L101	OSC Coil	AVR501	AVR103	AVR102	AVR902
" R Ch.		AVR201	AVR803	AVR805	AVR402	L201		AVR502	AVR203	AVR202	
CrO_2 Switch	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF
Limiter Switch	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF → ON	OFF
Dolby Switch	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
Play or Rec	Play	Play	Rec	Rec	Play	Rec	Rec	Rec	Rec	Play	Rec

(D.C.P = Dolby Check Point)

ASSEMBLY REMOVAL

1. CABINET REMOVAL (FIG 1)

1-1 TO REMOVE CABINET :
Remove 4 Screws (116), and lift up Cabinet.

1-2 TO REMOVE BOTTOM PLATE :
Remove 9 Tapping Screws (115) and 2 Machine Screws.

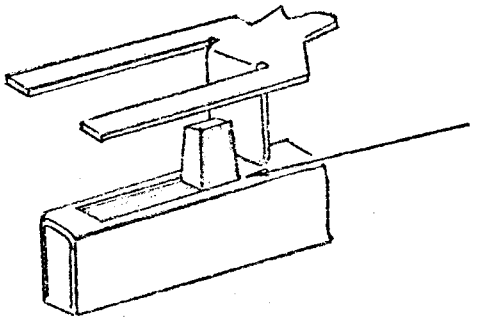
1-3 TO REMOVE FRONT PANEL :
Pull off 3 Knobs (86) (Input L, R & Selector), and remove 6 screws (109).

2. CASSETTE HOUSING REMOVAL (FIG 2)

2-1 Reove 4 Screws (109).
2-2 Loosen Screw (105) fixing Eject Lock Lever (40).
2-3 Lift up Cassette Housing, as loosening connection of Eject Lock Lever and Stopper (41).

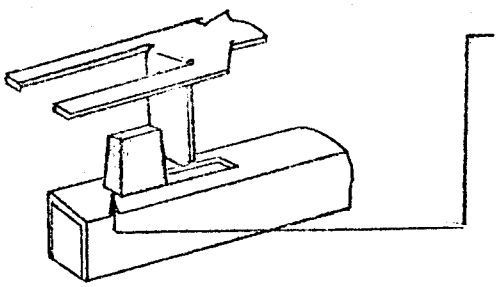
3. OPERATION AND ADJUSTMENT OF REC/PLAY SELECTOR SWITCH MECHANISM

3-1 TO MAKE SURE OF CORRECT OPERATION :
a. Remove Bottom Plate.
b. Load a Cassette Tape with an Anti-recording Nail.
c. Make sure that the Slide Switch operating bracket is in the position shown below, as all the recorder push-buttons are in recess position.



Make sure of the clearence less than 0.5mm here.

d. Makes sure of the Slide Switch being in the pcsition as shown below, when REC button is locked.

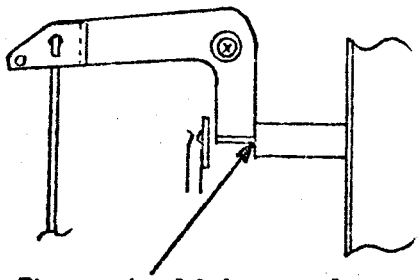


There should be no clearence.

3-2 ADJUSTMENT :

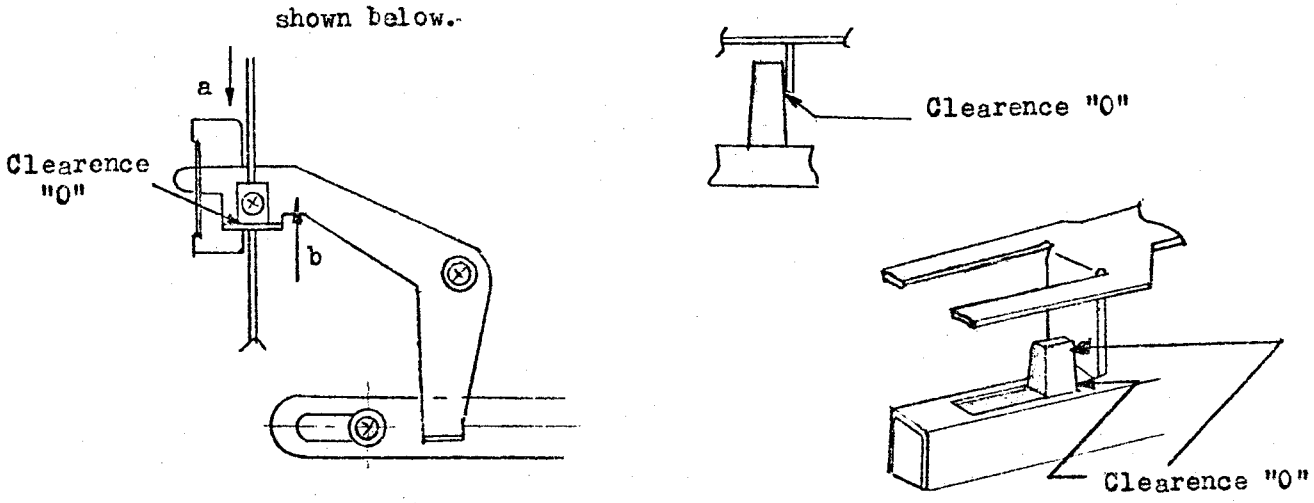
To adjust improper clearences mentioned in Item 3-1 and 3-2 :

a. Remove Bottom Plate.
b. Set up the unit with the right side on the bottom.
c. Unscrew two Stoppers.
d. Make sure of smooth functioning of REC Lever (C).
e. Make sure of there being no clearence on the pcint shown below.

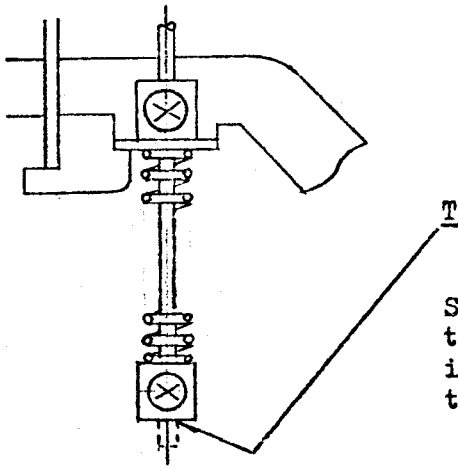


There should be no clearence.

f. Screw Stopper Collar, as pulling REC Link in the direction (a), and also lifting up REC Lever in the direction (b) until Rec/Play Switch and REC Lever (B) get connection as shown below.



g. Insert REC Spring into REC Link, and screw Stopper Collar, as shown below.


To be on line
Surpress REC Spring until it comes to the position shown in dotted line, in case a clearence is found through the step per Item 3-2-d.

h. Load a cassette tape with unti-recording nail, and set / reset REC Button to check functioning.

4. TAPE DRIVING MECHANISM

The Tape Driving Mechanism consists of Motor with Electronic Governer (DC 13.2V), Belt, Idler and Pulley.

Mode of PLAY (PLAY-REC), REW AND FF can be selected by switching Control Buttons located on the front. (See Fig 3)

4-1 Reel Rest Winding Torque :

Take-up Torque ..... 35 - 70 g.cm
REW Torque ..... more than 90 g.cm
FF Torque ..... more than 70 g.cm

4-2 Pinch Roller Surpressing Power ..... 480 ± 50g

4-3 Trouble Shooting of Rewinding :

a. PLAY :

	Check Point				Cause & Improvement
	Motor	Belt (A)	Idler (A)	Reel Rest	
1	OK				1) Belt (A) loose ... Replace Belt 2) Oiled ... Clean Motor Pulley, Belt (A) & Flywheel
2	OK	OK			Inadequate Surpressing of Idler (A) 1) Extruded Idler Bracket ... Correct extruded Bracket 2) Inadequate Power ... Check surpressing Spring 3) Oiled ... Clean Flywheel, Idler (A) & Reel Rest
3	OK	OK	OK		1) Inadequate Power ,.. Check surpressing Spring 2) Poor Contact ... Check extrusion of Idler Bracket

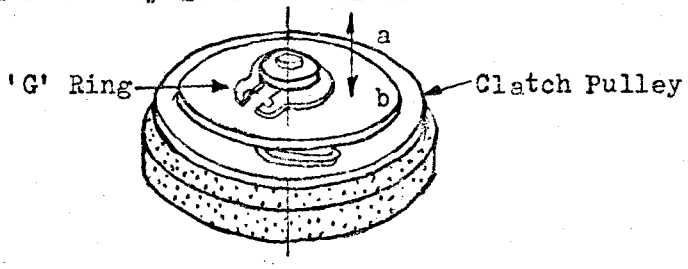
b. REW / FF

	CHECK POINT							CAUSE & IMPROVEMENT
	Motor	Belt (A)	Idler (B)	Belt (B)	Clatch Pulley	Pulley	Reel Rest	
1	OK							1) Belt (A) loose ... Replace Belt 2) Oiled ... Clean Motor Pulley, Belt (A), Flywheel
2	OK	OK						1) Oiled ... Clean Wlywheel and Idler (B) 2) Inadequate Surpression ... Check Spring
3	OK	OK	OK					1) Belt (B) loose ... Replace Belt 2) Oiled ... Clean Idler (B), Belt (B) & Clatch Pulley
4	OK	OK	OK	OK				Likewise as Item 3
5	OK	OK	OK	OK	OK			1) Oiled ... Clean Clatch Pulley & Reel Rest 2) Inadequate Surpression ... Check Spring 3) Improper Clatch Torque ... Check torque
6	OK	OK	OK	OK	OK	OK		- likewise as Item 5 -

Remark :

1. To clean Belt & Pulley, use a piece of cloth moistened with Carbon Tetrachloride or Alcohl.

2. Adjust Clatch Pulley as shown below.



To increase Torque, move 'G' Ring in direction 'b'

To reduce Torque, move 'G' Ring in direction 'a'

NAD-900 PARTS LIST
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SYMBOL	PARTS NO.	DESCRIPTION	Q'TY
1.	1951 3981	Chassis Assembly	1
2.	1960 2231	Rubber Bush (A)	1
3.	1960 2241	Rubber Bush (B)	1
4.	1951 3701	Mounting Bracket, Push Switch	1
5.	6590 4015	Push Switch	1
6.	1951 3711	Switch Lever	1
7.	1845 2491	Knob (A)	1
8.	1951 4011	Coil Spring (D)	1
9.	1951 3921	Bracket, Trans.	1
10.	4501 9055	Power Transformer	1
11.	7976 2009	Solenoid	1
12.	1951 3941	Planger Ring	1
13.	1950 9631	Taper Coil Spring	1
14.	1828 1271	Dual Pin	1
15.	1951 3991	Front Bracket Mecha. Assembly	1
16.	1828 1381	Pulley	2
17.	1951 5581	Counter Assembly	1
18.	6590 4036	Push Switch, 1 gang	1
19.	1951 4571	Lamp Bracket	1
20.	1951 1131	Lamp Holder Spring	1
21.	6790 1017	Pilot Lamp, 6V 50MA	1
22.	1960 2131	Meter Cushion	2
23.	6795 0141	Level Meter	2
24.	1940 4081	Jack Plate (B)	1
25.	7090 5081	Mic. Jack	2
26.	1960 2301	Diode Cushion	1
27.	3680 1007	Duode, SR-103 D	1
28.	8748 8501	Meter, PWB Assembly	1
29.	1951 3731	Mounting Bracket, Lamp	1
30.	1951 1131	Lamp Holder Spring	3
31.	6790 1070	Pilot Lamp, 6V 50MA	3

SYMBOL	Parts No.	Description	Q'ty
32.	8748 8301	Head Phone, PWB Assembly	1
33.	8748 8201	Power PWB Assembly	1
34.	1940 4611	Cassette Housing Assembly	1
35.	1951 4081	Lock Bracket	1
36.	1940 4391	Lock Lever	1
37.	1951 4841	Spring	1
38.	1951 4071	Keck Lever	1
39.	1951 4831	Pivot Shaft	1
40.	1940 4421	Eject Lock Lever	1
41.	1951 4061	Stopper	1
42.	1951 4621	Coil Spring (E)	1
43.	7190 2015	Lamp Holder, 1P	1
44.	6790 0104	Pilot Lamp, 6.3V 170MA	1
45.	1940 4301	Door	1
46.	1951 3721	Coil Spring (A)	1
47.	6590 7020	Leaf Switch	1
48.	1951 3781	REC Lever (A)	1
49.	1951 3791	Cushion	4
50.	1951 3811	REC Ring	1
51.	1951 3851	Stopper Collar	2
52.	1951 3831	Coil Spring (C)	1
53.	1951 3821	REC Lever (B)	1
54.	1951 3841	REC Lever (C)	1
55.	6590 7031	Leaf Switch	1
56.	8748 8101	Main PWB Assembly	1
57.	1951 3691	Volume Mounting Bracket	1
58.	8748 8701	Control PWB Assembly	1
59.	1940 4091	Jack Plate (A)	1
60.	7090 5082	Earphone Jack	1
61.	1940 4101	Belt (A)	1
62.	1940 4111	Belt (B)	1
63.	1940 4121	Belt (C)	1
64.	1951 3951	Rear Panel (NAD)	1
65.	1940 4281	Jack Decorative Plate (NAD)	1
66.	1951 3911	PWB Mounting Bracket	1
67.	8748 8601	Jack PWB Assembly	1

SYMBOL	PARTS NO.	DESCRIPTION	Q'TY
68.	2428 0351	Cord Clamper	1
69.	7190 3014	Fuse Holder VDE	2
70.	6668 1009	Fuse, 63MA	1
71.	6690 1007	Fuse, ST 125MA	1
72.	7975 9052	AC Cord KEMA	1
73.	1951 3971	Bottom Plate	1
74.	1828 1251	Foot	4
75.	7295 0711	Mechanical Unit, M-138	1
76.	1845 2511	DO Button	1
77.	1951 3861	Bracket	1
78.	1940 4621	Pulley (A) Assembly	1
79.	1950 9361	Bearing Assembly	1
80.	1951 5591	Magnet Assembly	1
81.	1940 2022	Rubber Cushion	3
82.	8848 8801	Lead SW PWB Assembly	1
83.	1951 3961	Front Panel (NAD) Assembly	1
84.	1845 2521	PS Button (NAD)	3
85.	1845 2531	ME Button (NAD)	1
86.	1845 2541	Volume Knob (NAD)	3
87.	1951 3931	Shield Case	1
88.	8748 8401	OSC PWB Assembly	1
89.	1951 3671	Drum Shaft	1
90.	1940 4151	Tape Run Drum	1
91.	1935 0061	Cabinet (NAD)	1
101.	9101 2011	Screw, CPIMS x 2 x 4 x 15BF	2
102.	9101 2031	" CPIMS x 2 x 6 x 15BF	2
103.	9101 2311	" CPIMS x 2.6 x 4 x 15BF	1
104.	9101 2321	" CPIMS x 2.6 x 5 x 15BF	10
105.	9101 2331	" CPIMS x 2.6 x 6 x 15BF	23
106.	9105 2336	" CFIMS x 2.6 x 6 x 3KF	2
107.	9101 2341	" CPIMS x 2.6 x 8 x 15BF	2
108.	9101 3021	" CPIMS x 3 x 5 x 15BF	15
109.	9101 3031	" CPIMS x 3 x 6 x 15BF	30
1110.	9101 3036	" CPIMS x 3 x 6 x 3KF	10
111.	9101 3066	" CPIMS x 3 x 10 x 3KF	4
112.	9101 4001	" CPIMS x 4 x 6 x 15BF	2
113.	9101 4021	" CPIMS x 4 x 10 x 15BF	2
114.	9101 4061	" CPIMS x 4 x 16 x 15BF	4
115.	2485 1541	" FT x 3 x 6 x 15BF	25

SYMBOL	PARTS NO.	DESCRIPTION	Q'TY
116.	1885 1801	Small Screw, with Washer	4
117.	9154 0261	Washer, #2STLWA x 2.6 x 15BF	9
118.	9154 0301	" #2STLWA x 3 x 15BF	12
119.	9154 0401	" #2STLWA x 4 x 15BF	2
120.	9149 0261	" SIWA x 2.6 x 15BF	1
121.	9149 0401	" SIWA x 4 x 15BF	4
122.	9143 0301	Nut, AHEXIN x 3 x 15BF	4
123.	9143 0401	" AHEXIN x 4 x 15BF	5
124.	2485 0971	Nut with Washer	2
125.	1885 0421	E Ring, 1.5 ø	1
126.	1885 1321	" 2.0 ø	1
127.	1885 0741	" 2.3 ø	1
128.	1885 1071	" 3.2 ø	2
129.	1885 1261	C Ring, 4.0 ø	1

NAD-900

CASSETTE MECH. PARTS LIST

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Symbol	Parts No.	Description	Q'ty
1.	1951 2401	Spring Holder	1
2.	1951 2411	Support, Cassette	2
3.	7975 1048	E Head	1
4.	7975 1047	R/P Head	1
5.	1950 9251	Coil Spring, Compression	1
6.	1960 2261	Rubber, Damper	1
7.	1951 4681	Collar, Damper	1
8.	1950 9231	Pinch Lever Assembly	1
9.	1950 9221	Plate Spring	1
10.	1885 1091	Bearing 2.0	1
11.	1950 9261	Twisted Coil spring	1
12.	1950 9241	Boss	2
13.	1951 2441	Spring Plate	1
14.	1951 2511	Boss	1
15.	1950 9281	Coil Spring	1
16.	1960 1201	Tube	1
17.	1951 2451	Slide Assembly	1
18.	1940 4451	Half Guide (L)	1
19.	1951 5631	Bracket Assembly	1
20.	1940 4461	Cassette Receptacle	1
21.	1951 5241	Spring, Cassette Shpport	1
22.	1951 5641	Boss	1
23.	1951 4731	Twisted Coil Spring (B)	1
24.	1940 4431	Plate, Pressure	1
25.	1951 4471	Eject Plate	1
26.	1951 5651	Bracket Assembly	1
27.	1940 4441	Half Guide (R)	1
28.	1951 4741	Shaft (A)	1
29.	1951 4761	Collar, Stopper	1
30.	1951 4751	Eject Spring	1
31.	1951 4801	Rollar Spring (C)	1

Symbol	Parts No.	Description	Q'ty
32.	1951 5661	Auto Stop Lever Assembly	1
33.	7975 2019	Motor, DC-13V	1
34.	1950 9611	Pulley	1
35.	1940 2801	Belt	1
36.	1940 4491	Pack Guide (R)	1
37.	1950 9321	Lever	1
38.	1950 9331	Coil Spring	1
39.	6590 7018	Leaf Switch	1
40.	1950 9481	Bracket	1
41.	1940 4471	Rec. Safety Arm	1
42.	1951 4811	Rollar Spring (D)	1
43.	1951 4771	Shaft (B)	1
44.	1951 4381	Pivot Bracket	1
45.	1951 5671	Cassette Receptacle Assembly	1
46.	1951 4701	Boss	2
47.	1885 1191	Nylon Washer	2
48.	1950 9471	Slide A ssembly	1
49.	1950 9311	Boss	1
50.	1951 4511	REC Slide	1
51.	1950 9291	Coil Spring	1
52.	1951 5691	Clamper	2
53.	1951 4491	Board, Cabinet Side (L)	1
54.	1950 9401	Mounting Bracket	1
55.	1951 4361	Eject up Lever	1
56.	1950 9391	Boss	1
57.	1940 4501	Pack Guide (L)	1
58.	1951 4821	Washer	2
59.	1951 4391	REC Lever	1
60.	1885 1091	Bearing 2.0	4
61.	1951 2421	Cassette Guide Pin	1
62.	1950 9531	Lever	1
63.	1950 9521	Boss	1
64.	1950 9501	Coil Spring	1
65.	1951 4521	Slide	1
66.	1950 9511	Ring	1
67.	1951 2521	Stopper	1

Symbol	Parts No.	Description	Q'ty
68.	1951 5681	Button Assembly	1
69.	1950 9651	Lever	1
70.	1950 9661	Lever	1
71.	1951 0261	Coil Spring, Pull	1
72.	1950 9681	Lever	1
73.	1950 9671	Special Spring	1
74.	1950 9541	Bracket Assembly	1
75.	1950 9551	Twisted Coil Spring	1
76.	1950 9561	Lever	1
77.	1950 9571	Stopper	1
78.	1950 9691	Spindle	1
79.	1950 9701	Spindle	1
80.	1950 9711	Lever	1
81.	1950 9721	Ring	1
82.	1950 9731	Guide	1
83.	1950 9751	Arm Assembly	1
84.	1950 9741	Coil Spring	1
85.	1940 2811	Pulley Assembly	1
86.	1951 4821	Washer	1
87.	1951 5701	Chassis Assembly	1
88.	1950 9591	Boss	1
89.	1951 4501	Slide	1
90.	1951 4401	Pause Slide	1
91.	1951 4481	Board, Cabinet Side (R)	1
92.	1951 4431	Door-Off Lever	1
93.	1951 4821	Washer	1
94.	1951 4781	Coil Spring (B)	1
95.	1940 2821	Cap	2
96.	1940 4711	Reel Receptacle Assembly	1
97.	1940 4721	Pulley Assembly	1
98.	1951 5711	Coil Spring, Compression	1
99.	1940 4731	Spindle Receptacle	1
100.	1951 1471	F.F. Arm Assembly	1
101.	1940 2841	Pulley Assembly	1

Symbol	Parts No.	Description	Q'ty
102.	1940 2871	Lever Assembly	1
103.	1940 2831	Reel Receptacle Assembly	1
104.	1950 9781	Mounting Bracket Assembly	1
105.	1950 9841	Boss	1
106.	1950 9831	Slide	1
107.	1950 9851	B oss	1
108.	1950 9861	Coil Spring	1
109.	1960 1241	Tube, Vinyl	1
110.	1950 9821	Mounting Bracket	1
111.	1940 2941	Bearing Assembly	1
112.	1940 2931	Flywheel Assembly	1
113.	1940 2921	Bearing Assembly	1
114.	1960 1231	Washer	1
115.	1940 2891	Lever Assembly	1
116.	1950 9811	Ring	1
117.	1940 2901	Pulley Assembly	1
118.	1940 2911	Round Belt	1
119.	1950 9801	Lever	1
120.	1950 9791	Coil Spring	1
121.	1960 1221	Tube, Vinyl	1
122.	1951 4331	Bracket, Support	1
123.	6590 7013	Leaf Switch	1
124.	6590 7019	Leaf Switch	1
125.	1951 5721	Bracket	1
126.	1951 5731	Ring	2
501.	9101 2012	Screw, CPIMS x 2 x 4 x 15CF	2
502.	9101 2022	" CPIMS x 2 x 5 x 15CF	2
503.	9101 2052	" CPIMS x 2 x 8 x 15CF	1
505.	9101 2302	" CPIMS x 2.6 x 3 x 15CF	9
506.	9101 2312	" CPIMS x 2.6 x 4 x 15CF	28
507.	9101 2322	" CPIMS x 2.6 x 5 x 15CF	11
508.	9101 2332	" CPIMS x 2.6 x 6 x 15CF	5
509.	9101 2342	" CPIMS x 2.6 x 8 x 15CF	8
511.	9199 0036	" CPIMS x 2.6 x 25 x 15CF	1
513.	9101 3032	" CPIMS x 3 x 6 x 15CF	1
514.	9105 2312	" CFIMS x 2.6 x 4 x 15CF	1

Symbol	Parts No.	Description	Q'ty
515.	1885 1141	Special Screw	3
516.	9128 3061	Screw, #2CPTS x 3 x 10 x 15BF	2
517.	9101 3091	" #2CPTS x 3 x 16 x 15BF	1
518.	9154 0202	Washer,#2STLWA x 2 x 15CF	3
519.	9154 0262	" #2STLWA x 2.6 x 15CF	27
520.	9143 0202	Nut, AHEXIN x 2 x 15CF	1
521.	9143 0262	Nut, AHEXIN x 2.6 x 15CF	4
522.	9143 0302	Nut, AHEXIN x 3 x 15CF	2
523.	1885 1151	Special Washer	1
524.	1885 1161	Special Washer	1
526.	1885 1181	Special Washer	1
527.	9151 0261	Washer, PIWA x 2.6 x 15BF	1
529.	1885 1211	Poly.-slider	7
530.	1885 1221	Poly.-slider	1
531.	1885 1231	Poly.-slider	1
532.	1885 1241	Poly.-slider	1
533.	1885 1241	Screw	1
534.	9128 3051	Screw, #2CPTS x 3 x 8 x 15BF	1
537.	1885 1261	G-Ring, 4.0	1
538.	1885 1321	E-Ring, 2.0	2
539.	1885 0421	E-Ring, 1.5	6
540.	1885 0451	1.9 Retainer	1
541.	1885 0741	E-Ring 2.3	5
542.	1885 1071	E-Ring, 3.2	5
543.	9113 2041	Screw, PIMS x 2 x 8 x 15BF	1
544.	9101 3022	Screw, CPIMS x 3 x 5 x 15CF	1
545.	1951 2341	Flat Washer	1
546.	1885 1881	Poly.-Slider	6
547.	9154 0302	Washer, #2STLWA x 3 x 15CF	2
548.	9101 2032	Screw, CPIMS x 2 x 6 x 15CF	2
549.	9101 2372	Screw, CPIMS x 2.6 x 14 x 15CF	2

FAST FORWARD

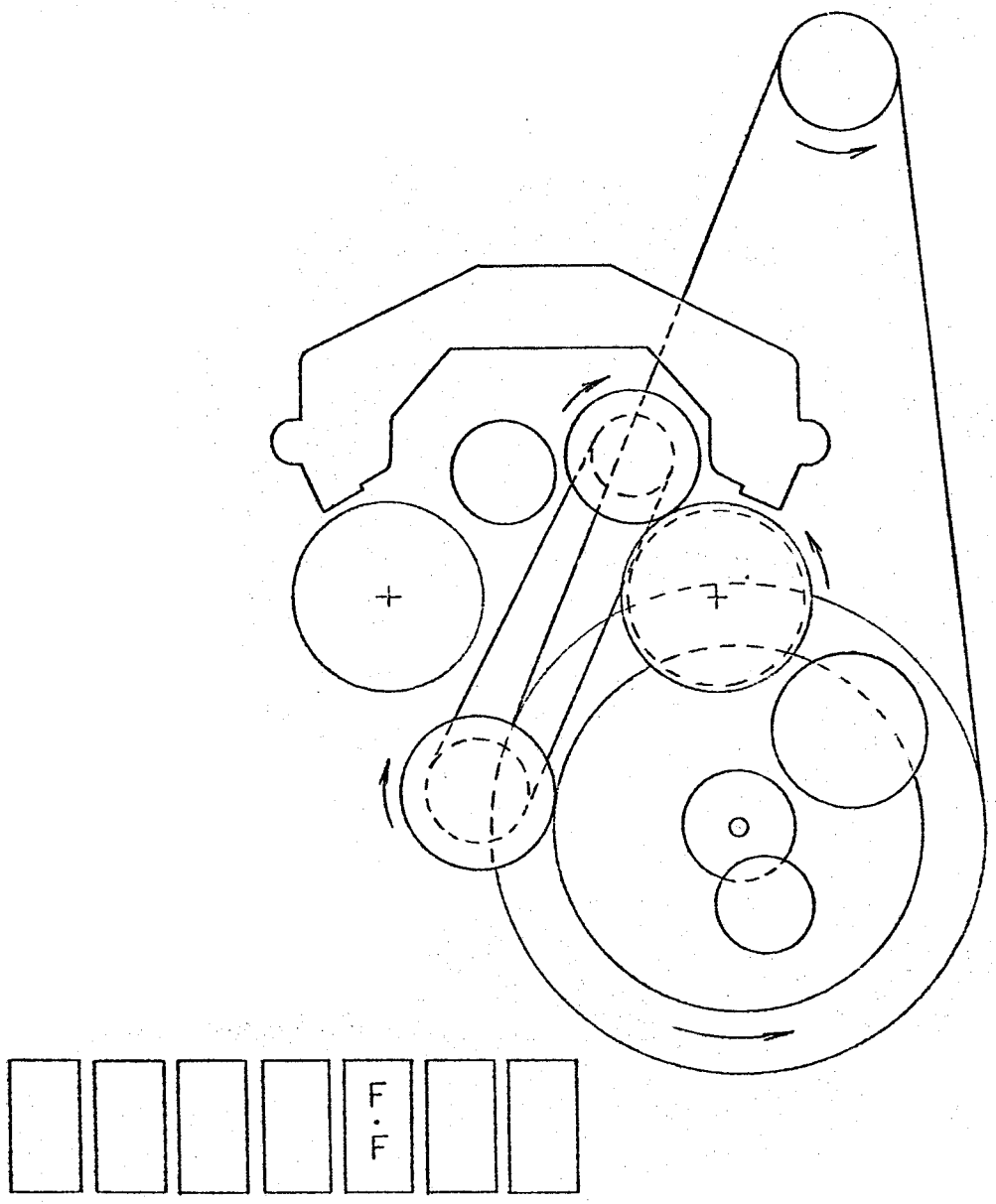

Fig 3

PAUSE

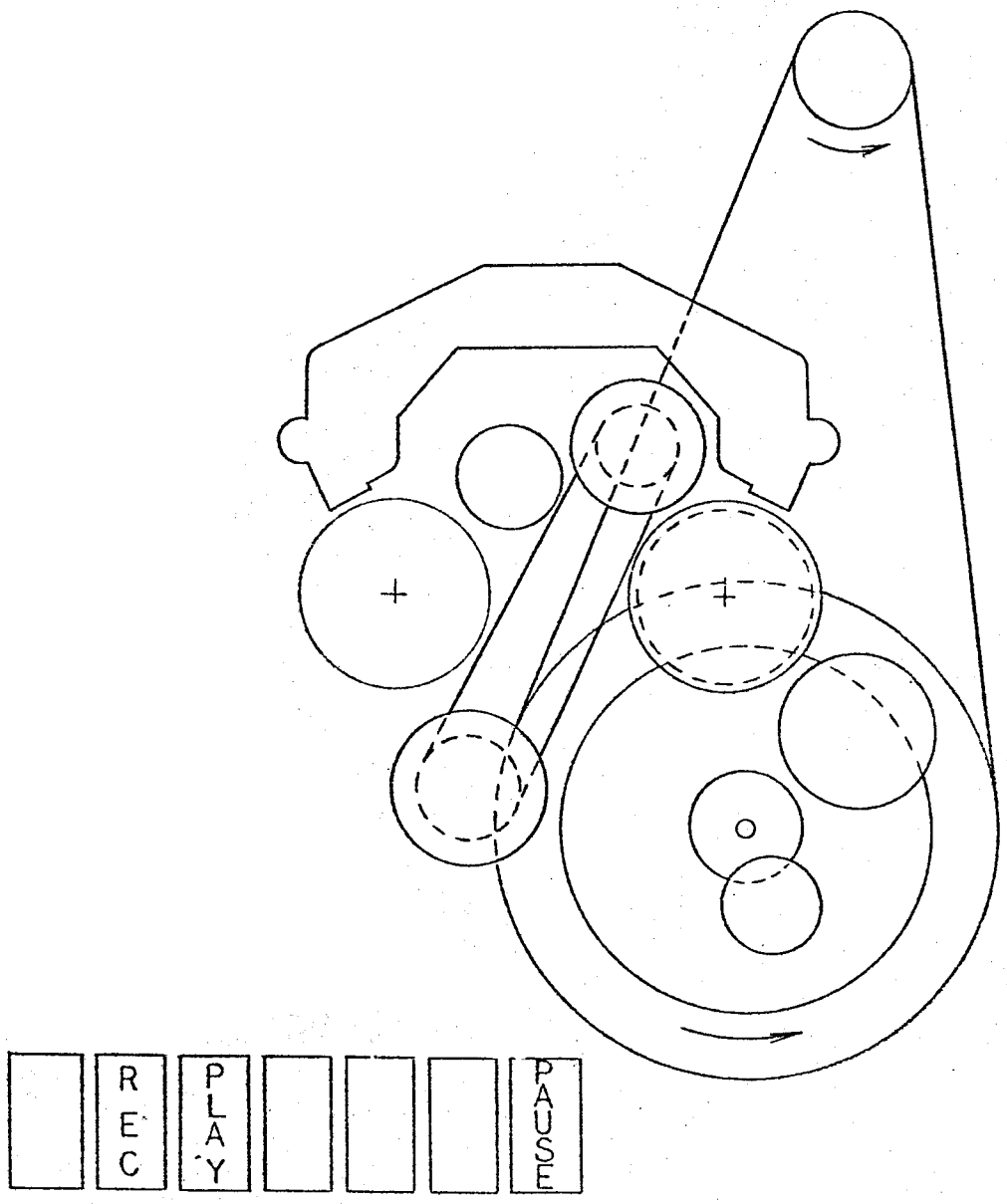

Fig 3

REWIND

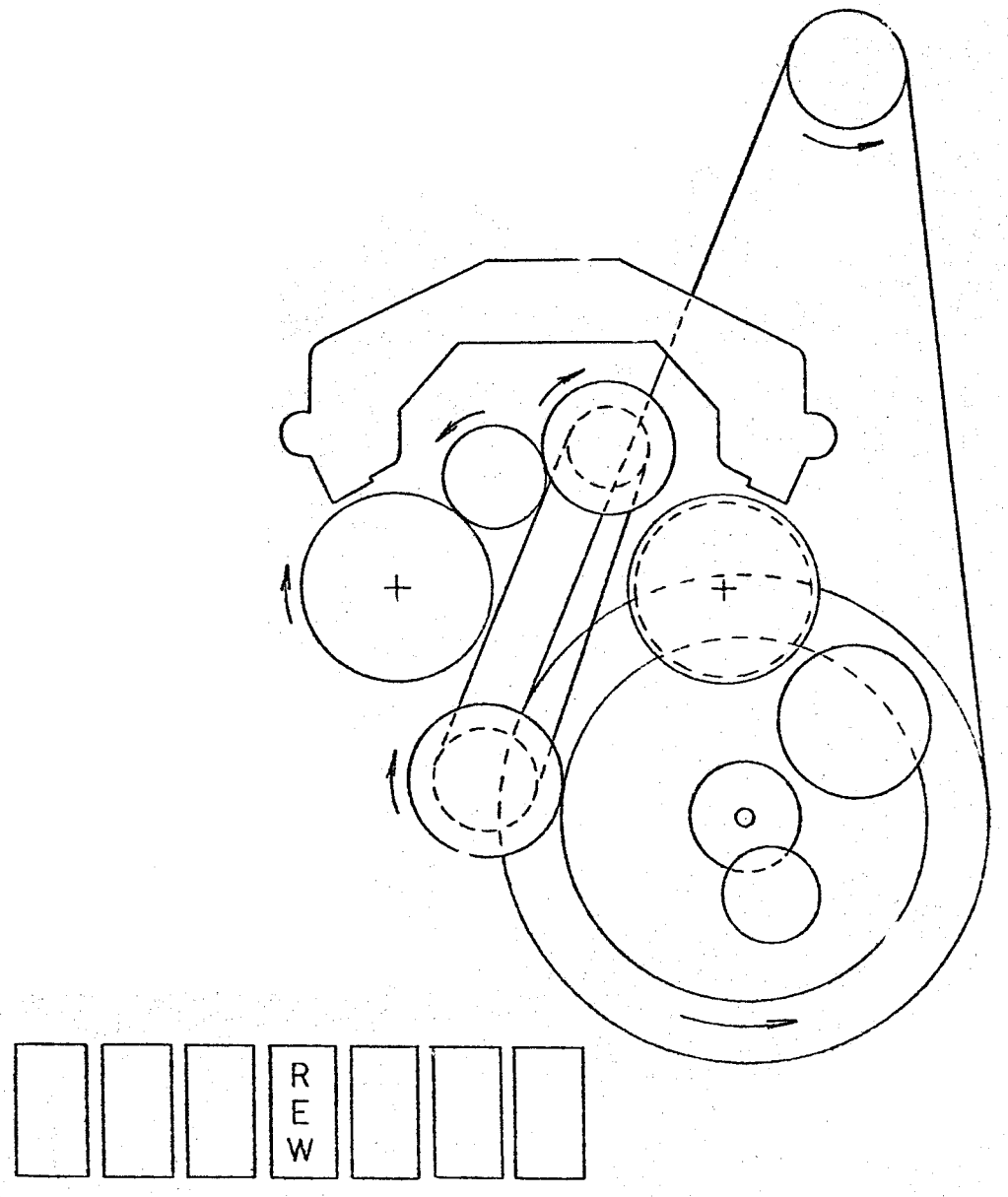

Fig 3

PLAY/RECORD

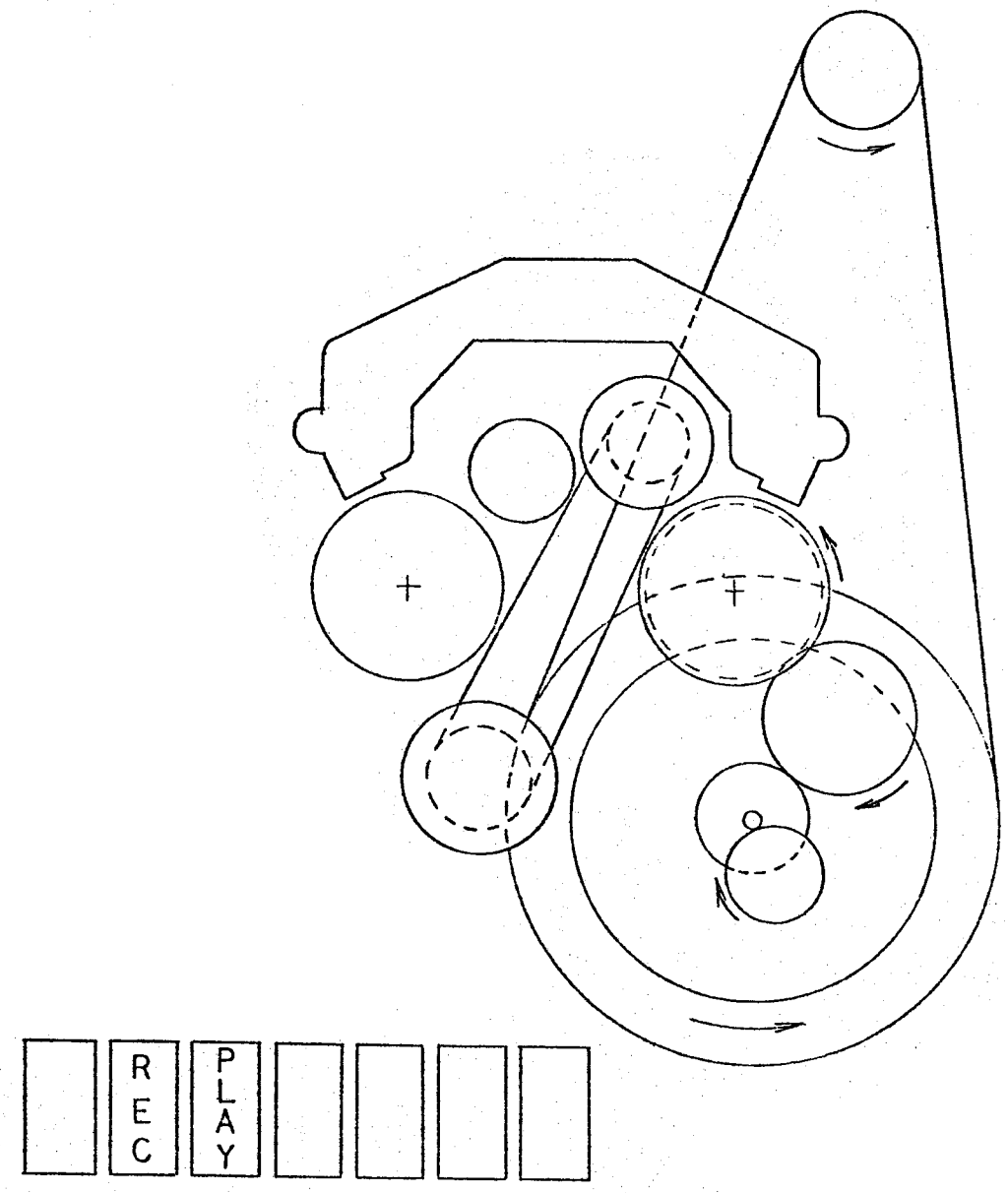

Fig 3

STOP

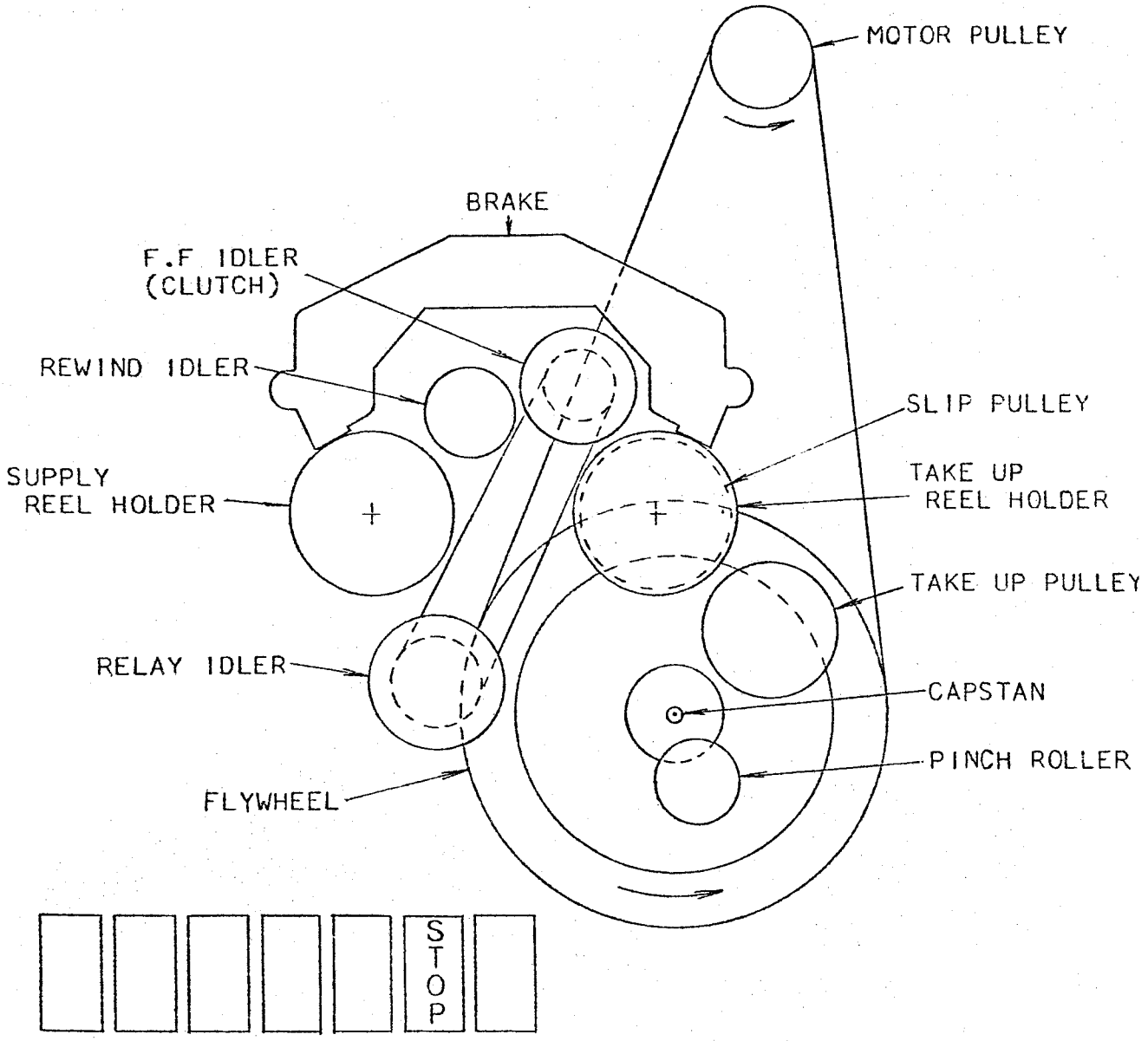
MOTOR PULLEY
BRAKE
F.F IDLER
(CLUTCH)
REWIND IDLER
SLIP PULLEY
SUPPLY
REEL HOLDER
TAKE UP
REEL HOLDER
TAKE UP PULLEY
RELAY IDLER
CAPSTAN
PINCH ROLLER
FLYWHEEL
STOP

Fig 3

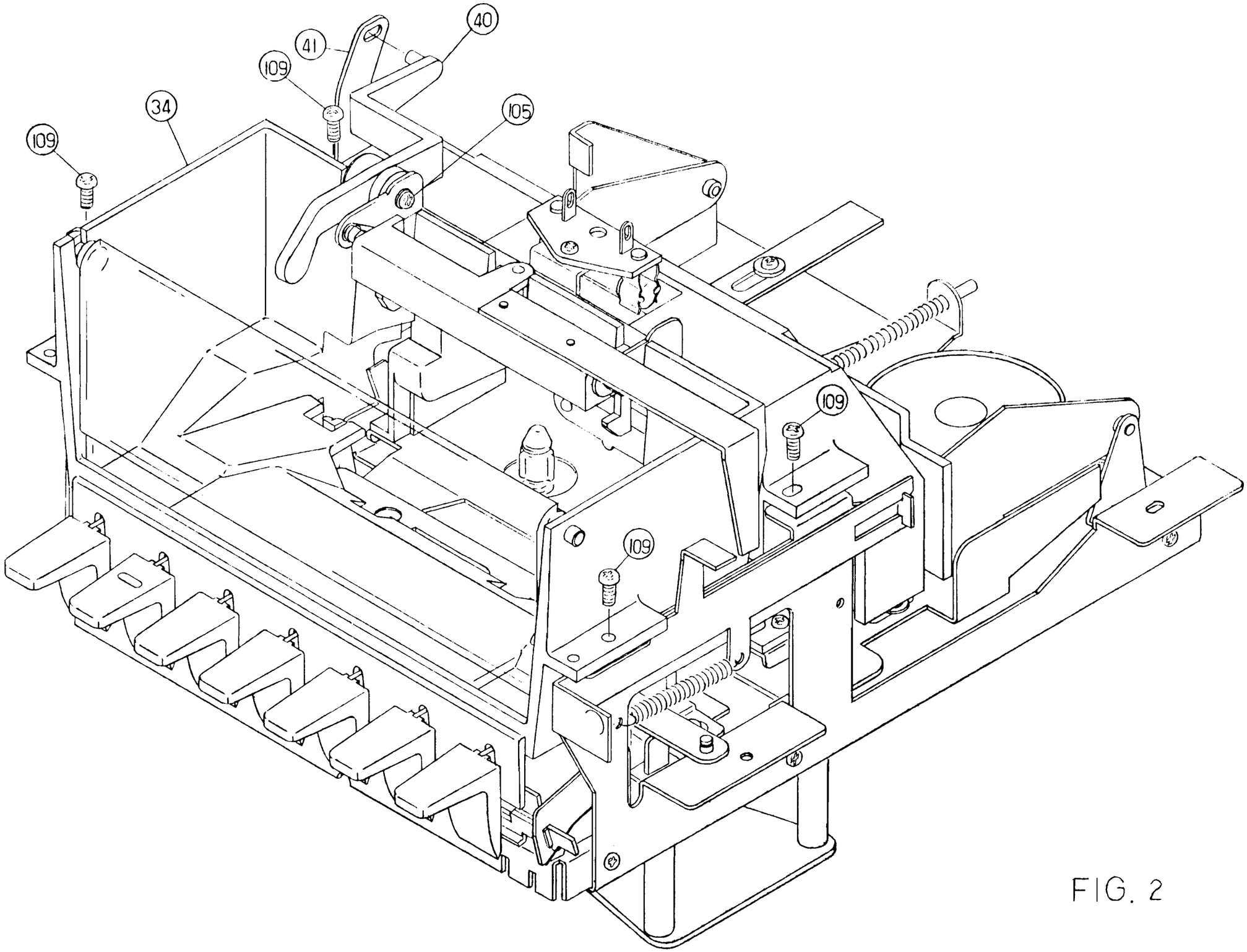

FIG. 2

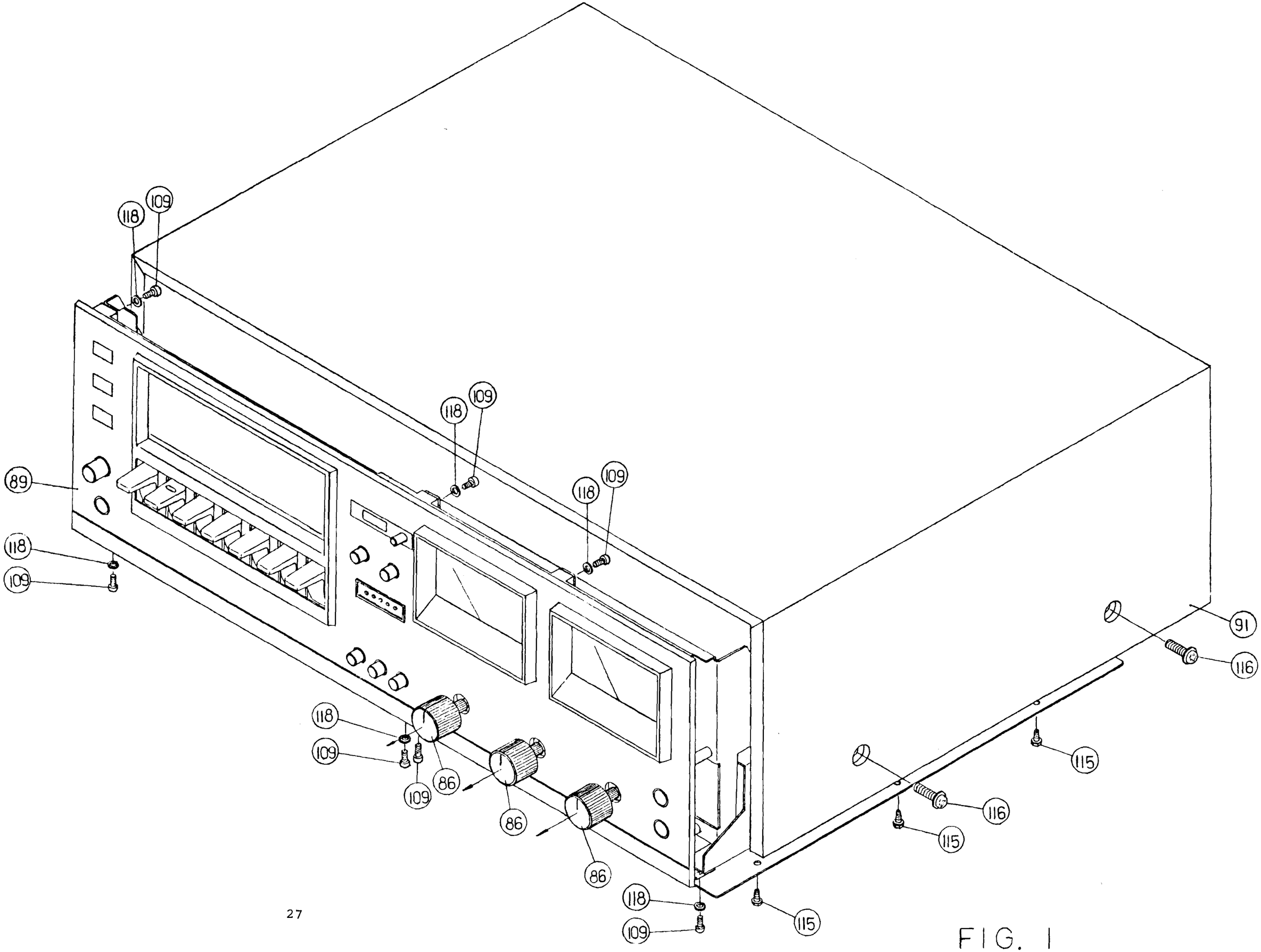

FIG. 1

MAIN PWB Lch

DOLBY IC NE545B

REC IC CA741CE

CONTROL PWB

PHONE PWB

METER PWB

HEADPONE JACK

JACK PWB

OSC PWB

MAIN PWB Rch

DOLBY IC NE545B

REC IC CA741CE

J101 LMIC

J201 RMIC

LINE J1

AUX J7

AUX J8

LINE J2

Lch RPH WY445AR

Rch

EH WY240x

VR2

VR1

VR401

VR402

S16-1

S16-2

S2-1

S7-3

S12-3

S2-3

S2-2

S7-2

S7-4

S2-4

S-3-1

S3-2

S4

PL1

PL2

PL3

PL4

PL5

PL6

PL7

LED

J103

S1-3L

S1-4L

S1-5L

S1-6L

S1-7L

S1-8L

S1-9R

D107 OA-90

D105 CA90

D103 1S953

D106 1S953

D205

D206

D207

D203

D501

D805

D803

D804

D806

D807

D808

AVR502 10k

AVR202

AVR802

AVR801

AVR803

AVR203

AVR401

AVR102

AVR101

AVR501 100k

50k AVR101

10k AVR123

10k AVR802

CNL2-2

CNL2-1

CNL1-2

CNL1-3

CNL1-1

CNL3-5

CNL3-4

CNL3-3

CNL3-2

CNA2-1

CNA2-3

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CNR3-5

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P2

P1

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P816

P801

P802

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P515

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P506

P505

P501

P503

P510

P509

P502

P508

P813

C101 100/16

C102 10

C103 330p

C104 68p

C105 100/16

C106 10

C107 1/25

C108 1/25

C109 3900p

C110 47p

C111 3900p

C112 150

C113 0.01

C114 10/25

C115 10/25

C117 100p

C118 22/16

C121 0.01

C122 0.022

C123 10

C124 4700p

C125 0.1

C126 47/25

C127 0.1

C129 220/25

C130 0.1

C131 3900p

C132 0.27

C133 3000p

C135 0.027

C136 4700p

C138 10/25

C139 10/25

C140 5600p

C141 220/16

C142 0.047

C144 10/25

C145 0.33

C146 10/25

C147 0.01

C148 47/16

C149 680p

C150 330p

C151 220/25

C152 100/25

C155 680p

C156 47/16

C160

C201

C202

C203

C206

C207

C208

C210

C211

C213

C214

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C402

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C804

C805

C806

R101 270

R102 120k

R103 560k

R104 22k

R105 22

R106 6.8k

R107 1k

R109 39k

R110 4.7k

R111 470k

R112 150

R114 1.5k

R115 12k

R116 1k

R119 22k

R120 10k

R121 1M

R122 1M

R124 3.9k

R125 10k

R126 22k

R127 150k

R128 220k

R129 220k

R130 68k

R131 33k

R132 100

R133 8.2k

R134 47k

R135 150k

R136 68k

R137 27k

R138 100

R139 22k

R140 10k

R141 68k

R142 22k

R143 10k

R144 47k

R145 3.3k

R146 120

R147 100k

R148 680k

R149 150k

R150 180

R151 270k

R152 22k

R155 680p

R160 18k

R201

R202

R203

R204

R205

R206

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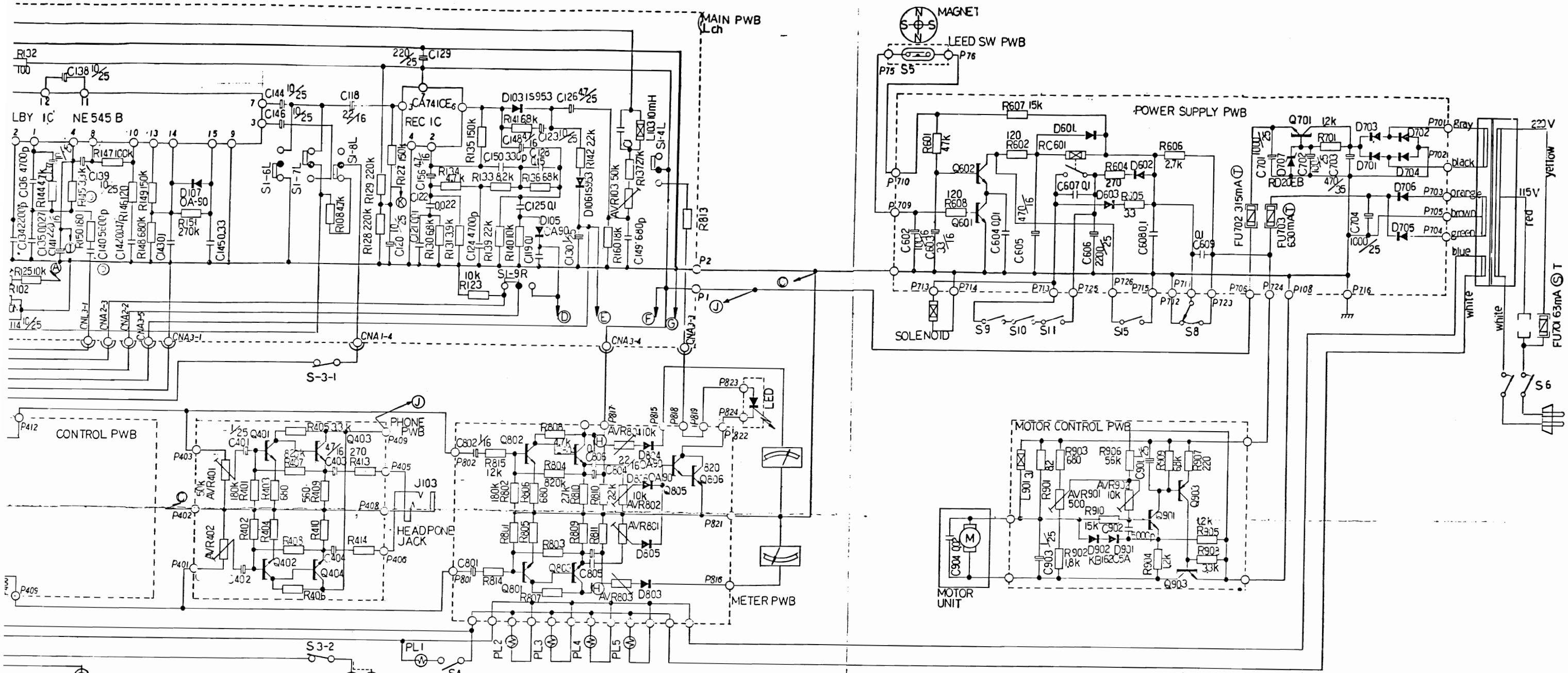


SWITCH POSITION

S No	CIRCUIT	
1	REC – PLAY	PLAY
2	CrO2 – Fe2O3	CrO2
3	PLAY	PLAY
4	REC LAMP	OFF
5	LEED SW	OFF
6	POWER	OFF
7	DOLBY NR	ON
8	PLAY – STOP	PLAY
9	MEMORY	OFF
10	REWIND	OFF
11	COUNTER	OFF
12	LIMITER	ON
13	INPUT SELECTOR	MIC

TRANSISTOR

Q No	
101 102 201 202	2SC 458LG
401 402	2SC 923
601 602	
802 801 803 804 805 806	2SC945
403 404 501 502	2SD261
103 104	2SK30
901	2SC828
902	2SA56
903	2SC1398
701	2SC1096

PILOT LAMP

PL No	
1	REC
2	METER
3	METER
4	TAPE RUN
5	CASSETTE
6	DOLBY NR
7	CrO2

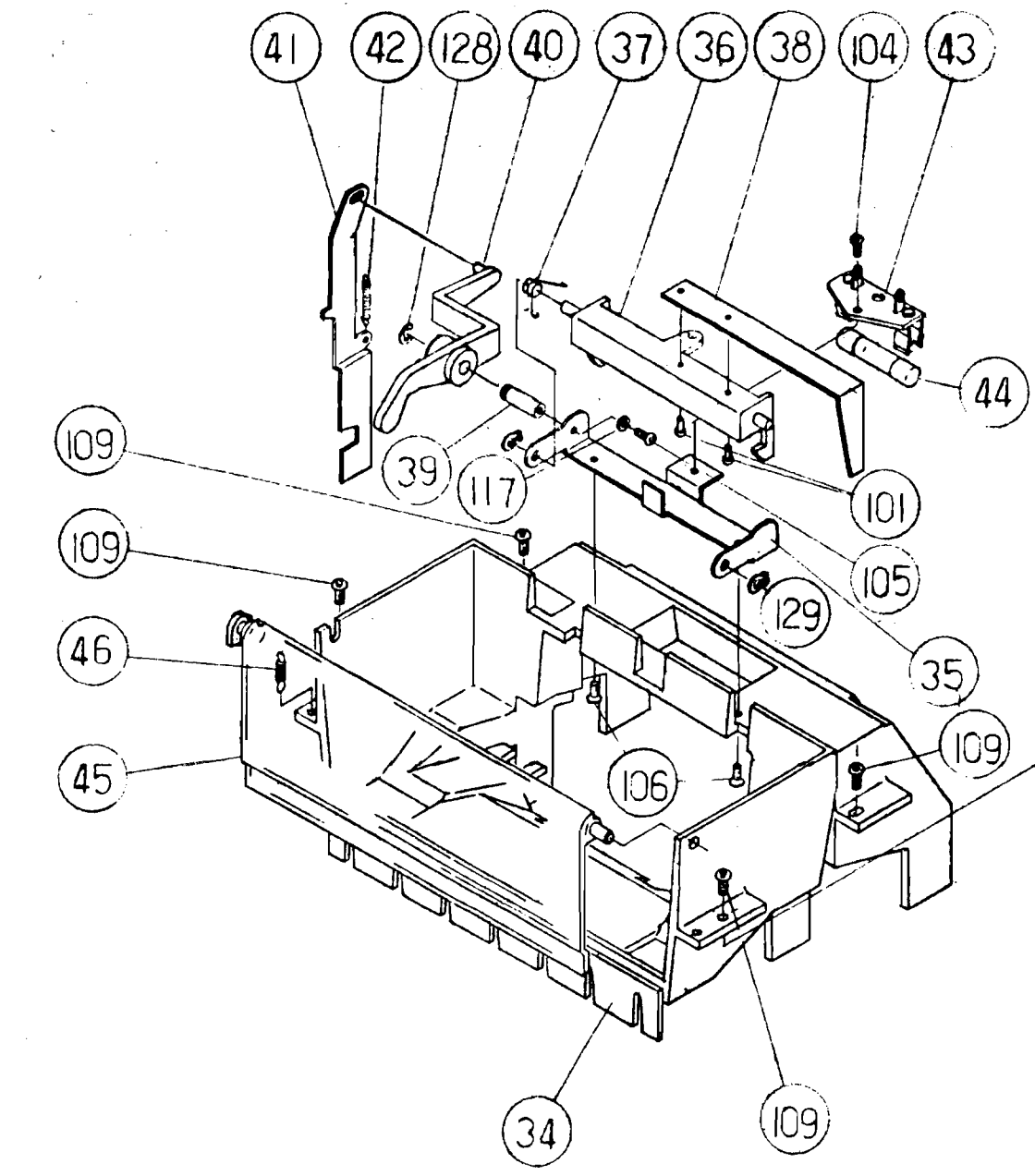
▷ adjustable
◎ select ≦ 1%

NAD-900

(tentative)

1911074

NEC New Nippon Electric Company,Limited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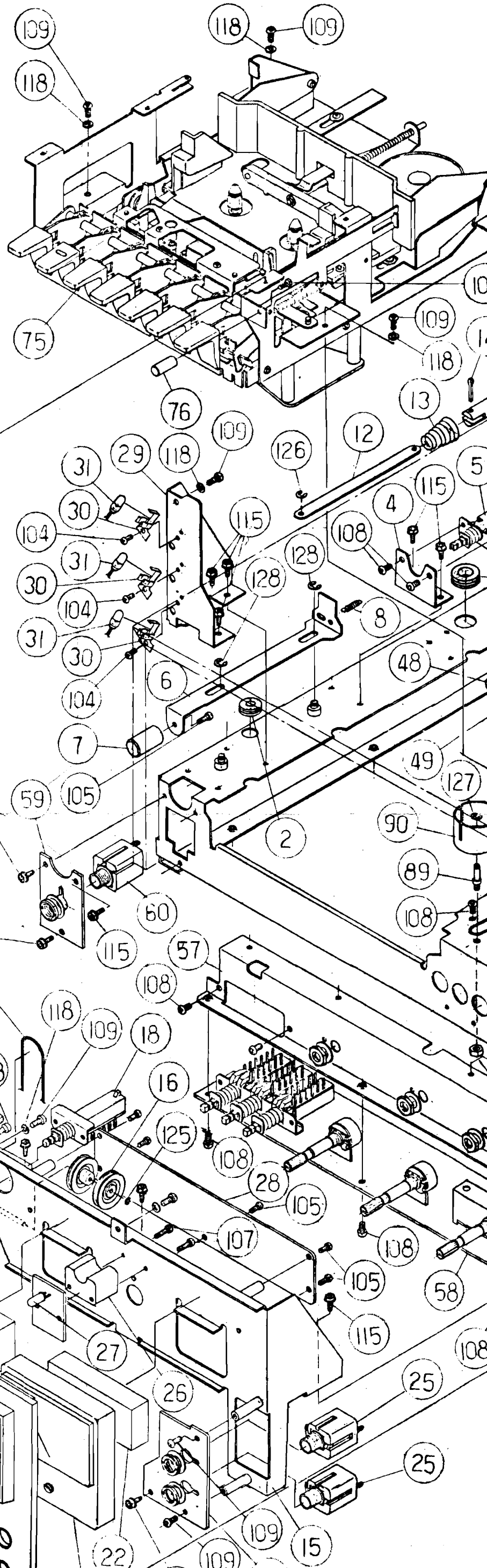
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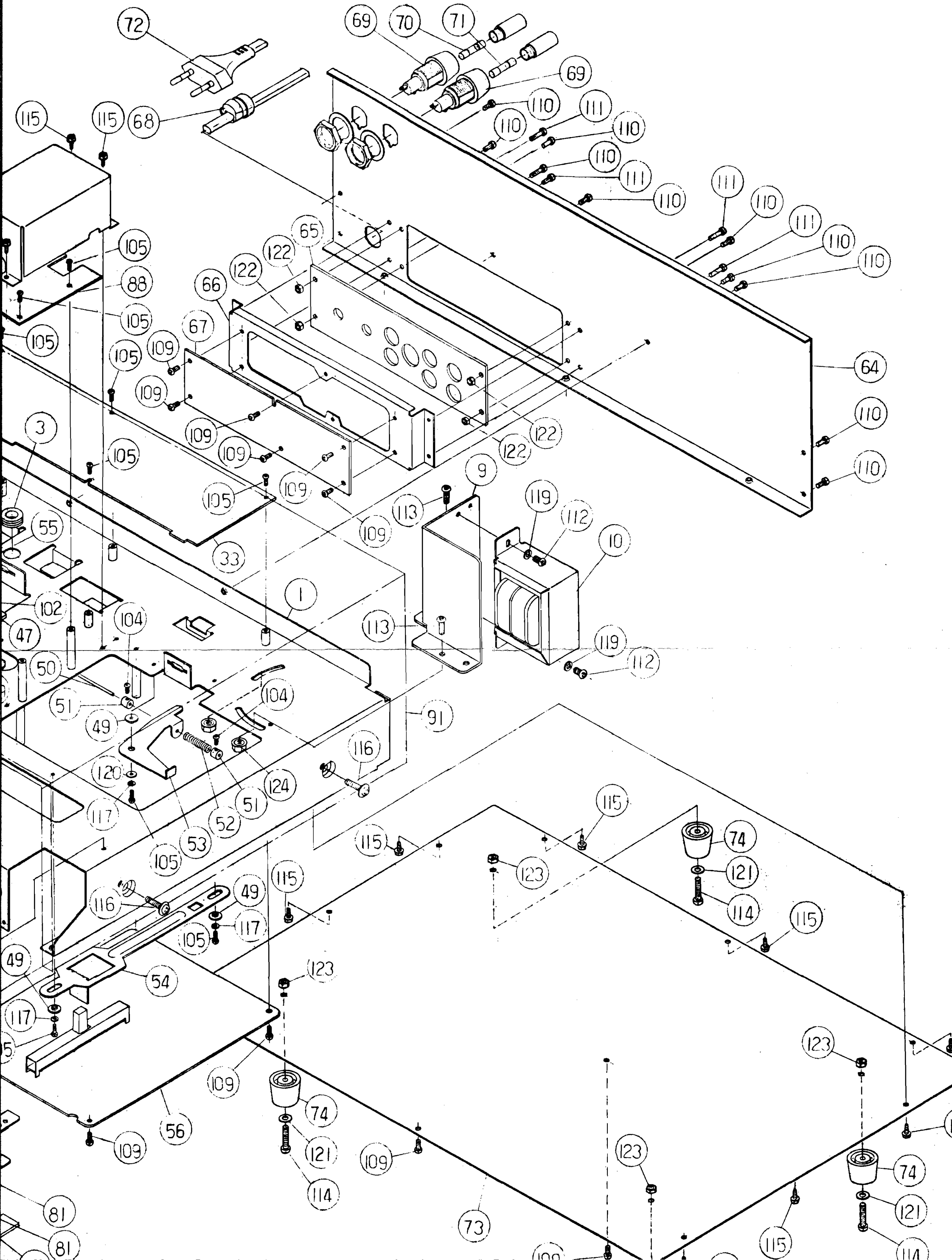
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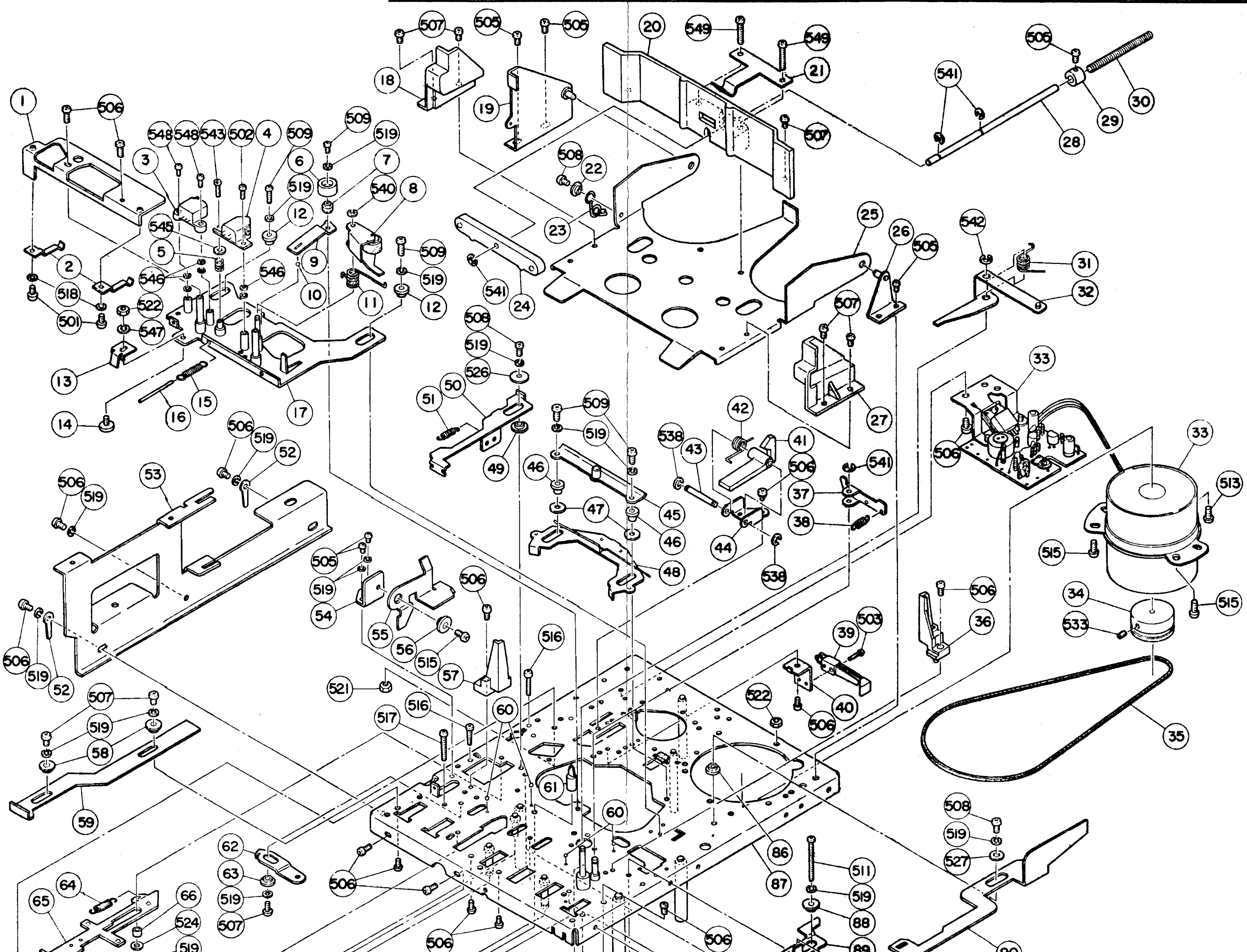
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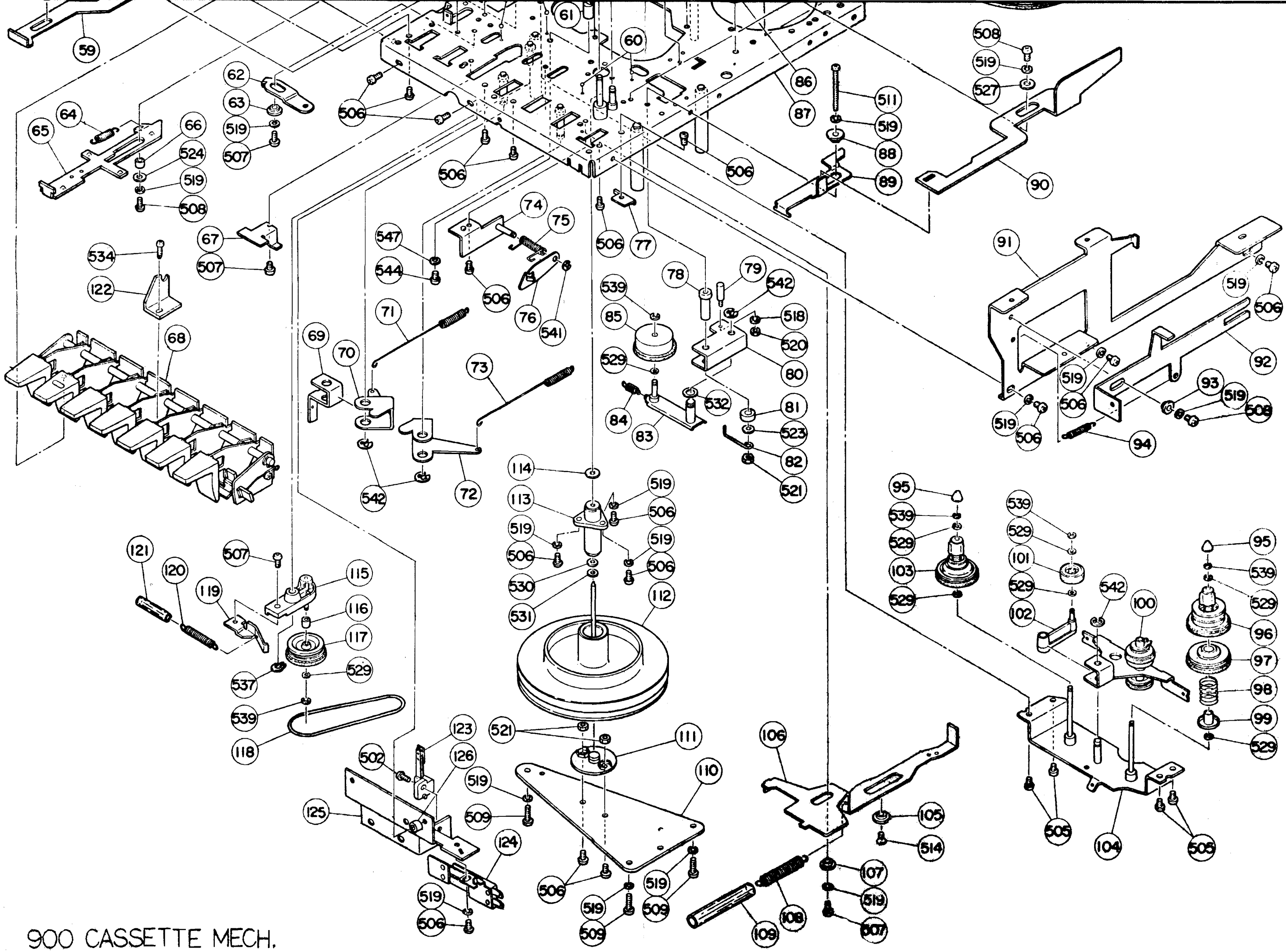

900 CASSETTE MECH.